# 2020 CENSUS LOCAL UPDATE OF CENSUS ADDRESSES OPERATION (LUCA)

Frequently Asked Questions (FAQs) for the Geographic Update Partnership Software (GUPS)



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### 1. How to submit adds or edits to addresses without structure coordinates

Addresses added or modified without structure coordinates (map spots) may be excluded from your export file if you don't save your edits and restart GUPS before exporting. Please follow the instructions below to ensure your LUCA submission to the Census Bureau contains all of the addresses that you intended.

GUPS is built on the open source GIS software QGIS. Due to native QGIS functionality, not all edited addresses may be exported on your initial attempt. QGIS requires certain information in order to create a feature. In LUCA, this information is a latitude and longitude to create a point. GUPS was designed to accept and create a false feature for those addresses contained in the Census Address List without latitude and longitude. If those addresses are edited, but still do not have a latitude and longitude, QGIS's native functionality takes precedence and no longer recognizes the address as a feature available for export. In order to have the address recognized as a feature, GUPS must be restarted.

We request that all partners reviewing their addresses in GUPS perform the following actions, in order, before exporting and submitting their file.

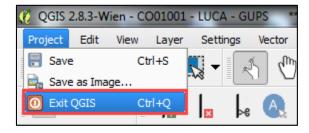
- 1. Finish editing your Census Address List.
- 2. Run the Address Review Tool and correct any addresses that need correction.



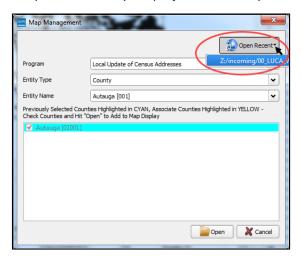
3. Save your edits.



4. Close GUPS.



5. Reopen GUPS and your project via the "Open Recent" button on the Map Management window.



6. Select the "Export to Zip" button from the LUCA Toolbar.



7. Submit zip files through SWIM.

If you have already submitted your file to the Census Bureau, please review the file to ensure that all the records you intended to submit were sent to the Census Bureau. If not, or you are unsure, you can start with step 5 above and reopen your project in GUPS, export the file and resubmit the file through SWIM.

If you have any questions, please call the Census Bureau at 1-844-344-0169.

### 2. Procedures for Viewing and Editing Ungeocoded Addresses in the LUCA GUPS

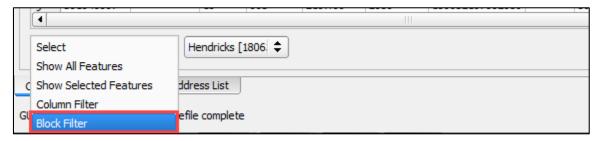
In order to view and edit ungeocoded addresses in GUPS, you will be required to either edit the data you already have via the attribute table, or request a new set of data. Part 1 describes the editing process for using your existing data. Part 2 describes the process for using a new set of data. Part 3 shows how to view and edit the ungeocoded addresses.

Instructions in this document must be followed exactly in order to prevent corruption and/or overwriting of data.

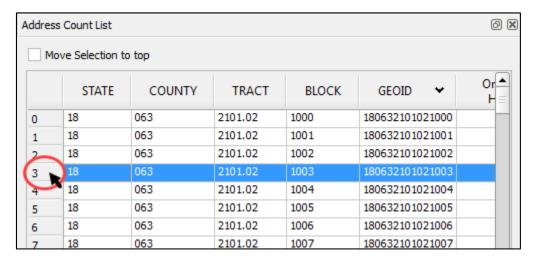
### Part 1. Preparing Address List Data for Display in Census Address List (Existing Data)

Use the instructions in the following section so that you can view and edit ungeocoded address records in the Census Address List.

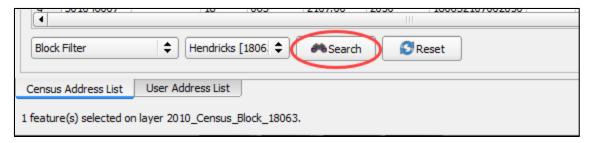
- 1. Open the GUPS project for your county.
- 2. Filter your Census Address List by block. Click the **'Select'** dropdown menu in the bottom left corner of the Census Address List, and choose **Block Filter**.



3. Choose a block from the Address Count List by selecting one of the numbers in the left column of the list.



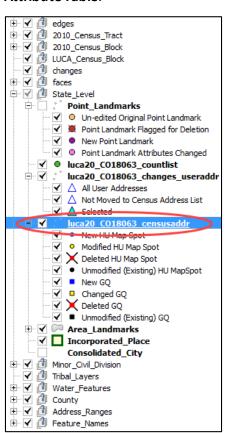
4. Select the **Search** button in the Census Address List.

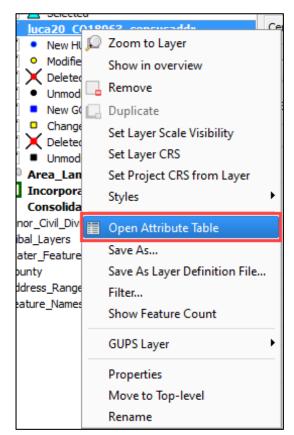


5. After the Census Address List is filtered, select the **"Show/Hide Legend"** button from the toolbar to open the Table of Contents pane on the left of the screen.

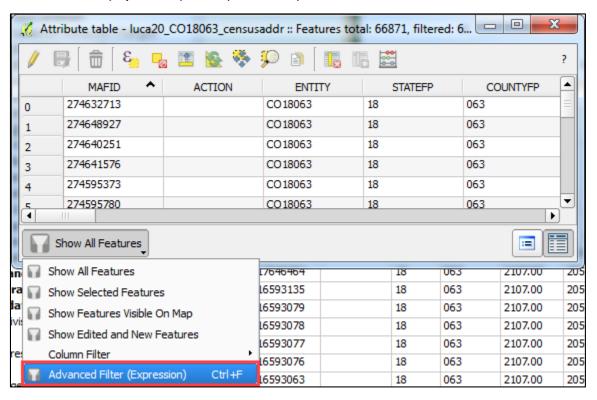


6. Right-click on the Census Address List layer (luca20\_<EntityID>\_censusaddr) and select Open Attribute Table.

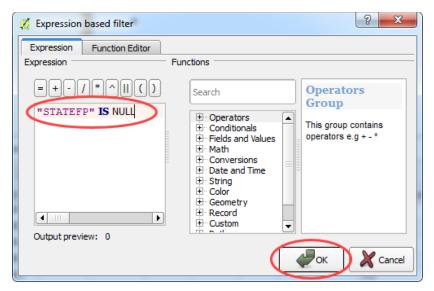




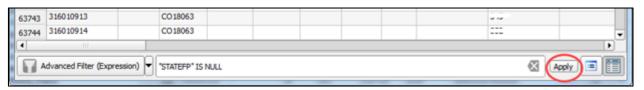
7. In the bottom left corner of the Attribute Table, click the **Show All Features** button and select **Advanced Filter (Expression)**. This opens the Expression Based Filter window.



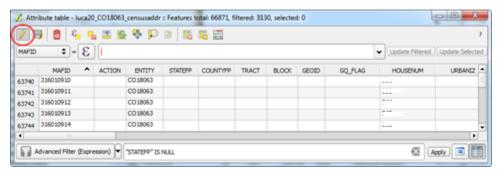
8. In the left pane of the Expression Based Filter window type the following statement exactly as shown: "STATEFP" IS NULL. Select the OK button.



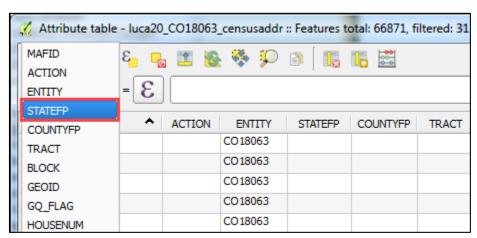
9. You are returned to the Attribute Table. Select the **Apply** button to the right of the expression.



10. Select the **yellow pencil icon** in the upper left corner of the window to begin an editing session. This will open a field calculator row, and allow you to begin editing the attribute table.

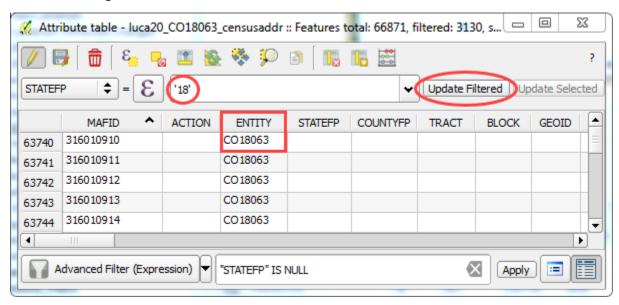


11. Left-click the **MAFID** dropdown and select **STATEFP**.



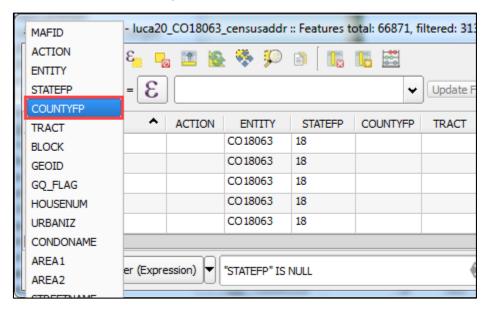
12. In the blank space to the right of the large 'E' type your 2-digit State FIPS code. Your 2-digit State FIPS code can be found by looking at the ENTITY column, and entering the first 2 digits after 'CO'. In this example, the State FIPS code is '18'.

Be sure to enter the single quote (') before and after the number. Select the **Update Filtered** button on the right.



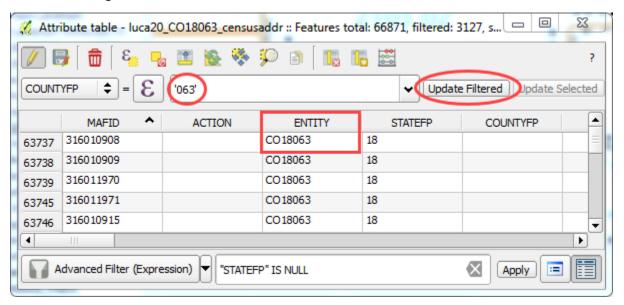
This will fill in the STATEFP field for all of the visible records.

13. Return to the **STATEFP** dropdown, and select **COUNTYFP**.



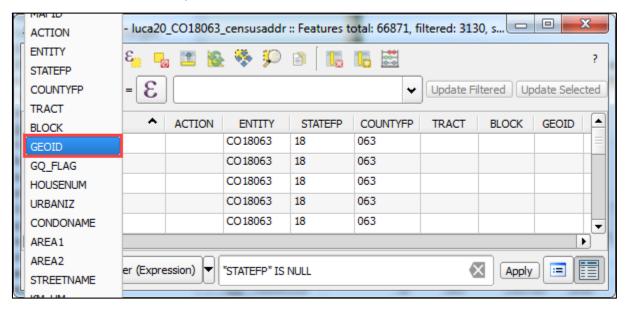
14. In the blank space to the right of the large 'E' type your 3-digit County FIPS code. Your 3-digit County FIPS code can be found by looking at the ENTITY column, and entering the last 3 digits. In this example, the County FIPS is code '063'.

Be sure to enter the single quote (') before and after the number. Select the **Update Filtered** button on the right.



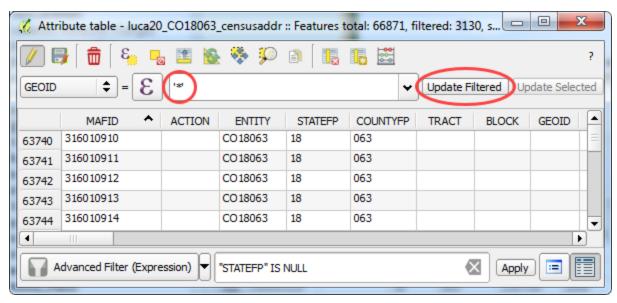
This will fill in the COUNTYFP field for all of the visible records.

15. Return to the **COUNTYFP** dropdown, and select **GEOID**.



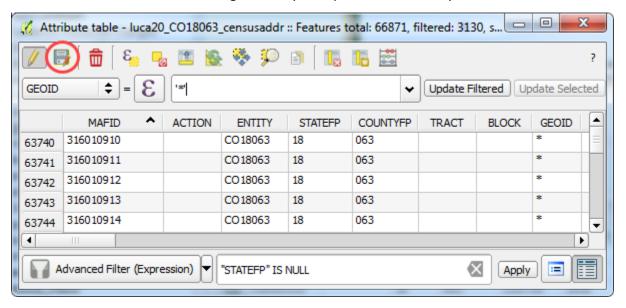
16. In the blank space to the right of the large 'E' type '\*'.

Be sure to enter the single quote (') before and after the asterisk (\*). Select the **Update Filtered** button on the right.

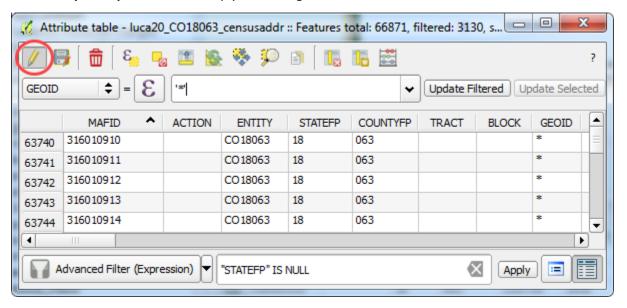


This will fill in the GEOID field for all off the visible records.

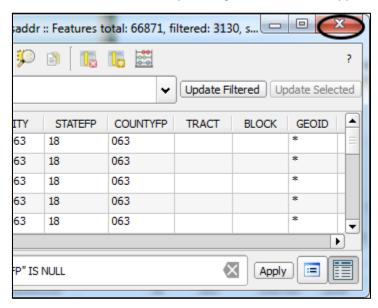
17. Select the Save Edits button to the right of the yellow pencil icon to save your edits.



18. Select the **yellow pencil icon** to stop your editing session.



19. Close the Attributes Table by clicking the **red X** in the upper right corner of the window.



Skip to "Part 3. Viewing and Editing Ungeocoded Addresses in the Census Address List."

### Part 2. Preparing to Use Newly Delivered Census Address List (New Data)

In order to use newly delivered data without overwriting your current data, it is requested that you complete your review in two (2) pieces and make two (2) submissions. Please complete your review of all geocoded addresses first, using the data already installed on your computer. Then, follow the instructions in this section to delete your original data from GUPS and import your new data before completing your second review of all of the ungeocoded addresses using the newly supplied data.

If you have not begun your review, or would prefer to start over, you can simply use the newly supplied data after deleting the existing data on your computer (Step 8).

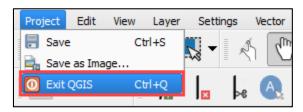
1. After completing your review of geocoded addresses (your original dataset), select the **Address Review Tool** button from the LUCA Toolbar.



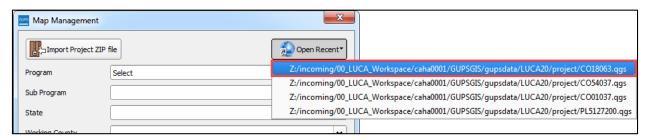
2. Correct address records displayed in the Census Address List Error window, and then save your edits by selecting the **Save** button in the upper left corner of the GUPS screen.



3. Close GUPS by selecting **Exit QGIS** from the Project dropdown menu in the upper left corner of the screen.



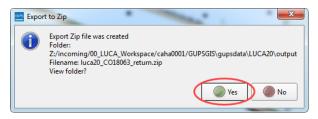
4. Reopen GUPS. Reopen your county project by clicking the 'Open Recent' drop-down from the Map Management window, and selecting your recent project.



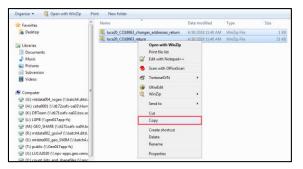
5. When the project opens, select the **Export to Zip** button from the LUCA Toolbar.

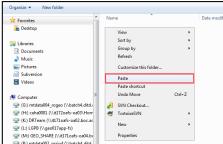


6. After the project exports, select **Yes** to view the export file in a folder.

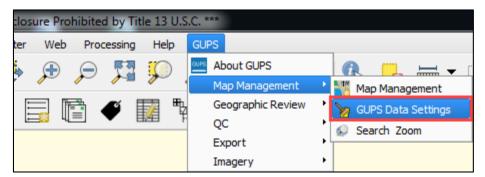


7. When the folder opens, select both zip files, right click, and select **Copy.** In a separate folder, **Paste** the files for your records. You will need to submit these zip files to the Census Bureau as your first submission.

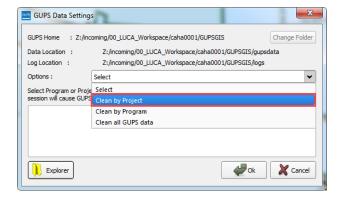




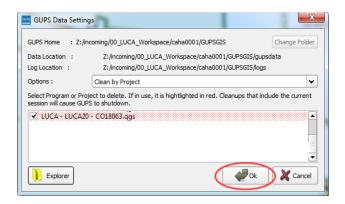
8. Return to the GUPS window. Click the 'GUPS' drop-down menu from the top of the screen, and select 'Map Management,' then **GUPS Data Settings**.



9. You must delete your first dataset from the GUPS before you can load your new dataset. In the GUPS Data Settings window, select Clean by Project from the Options drop-down menu.



10. Select the checkbox next to the project with your Entity ID in it, then select the **OK** button.



This deletes all of your original data. GUPS will close automatically.

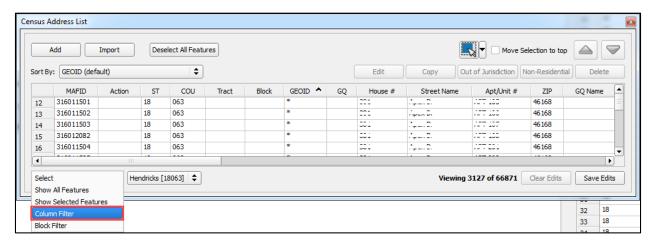
- 11. Reopen GUPS. Select **Local Update Census Addresses (LUCA)** from the Program dropdown menu in the Map Management window.
- 12. Load your data from your new CD/DVD labeled "Title 13 Address Data," and your original non-title 13 shapefiles disc.

Continue to "Part 3. Viewing and Editing Ungeocoded Addresses in the Census Address List."

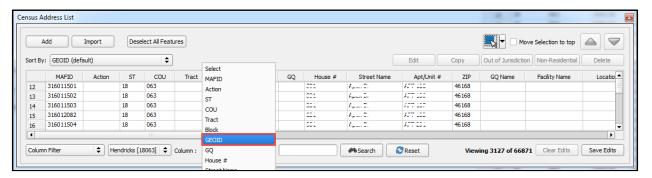
### Part 3. Viewing and Editing Ungeocoded Addresses in the Census Address List

Use the instructions in the following section to view and edit ungeocoded addresses in the Census Address List.

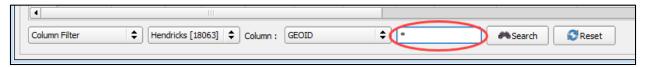
1. Click the **Select** dropdown in the bottom left corner of the Census Address List window, and select **Column Filter**.



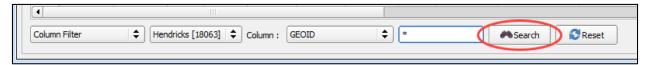
2. In the column selection dropdown, select **GEOID**.



3. In the blank entry field, type in \*. Note: <u>do not</u> put a single quote (') before and after the asterisk (\*) in this step.

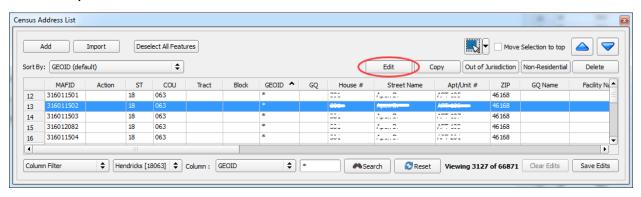


4. Select the binoculars search button.

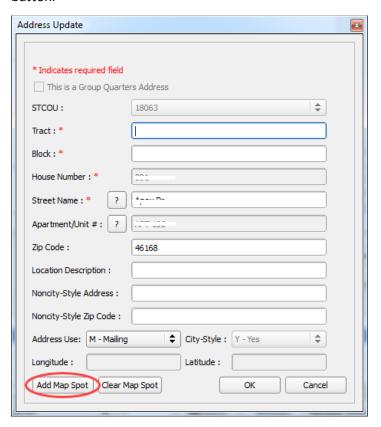


You are now viewing only ungeocoded records in the Census Address List.

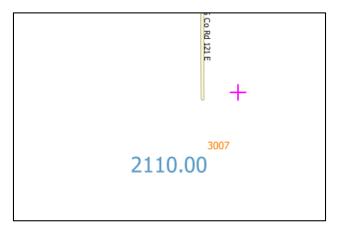
5. Select a record from the Census Address List and select the **Edit, Out of Jurisdiction, Non-Residential, or Delete** button.



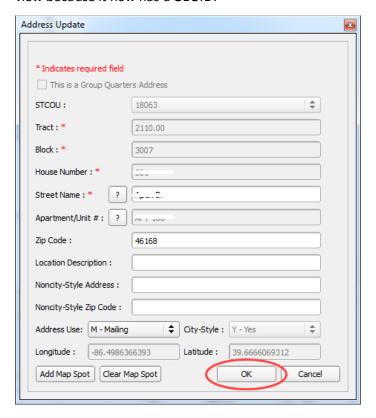
6. If the Edit button is selected, the Address Update window will open. Select the **Add Map Spot** button.



7. Place a map spot on the map in the block where the address is located. If you know the exact location of the building, place the map spot on that building location. If you do not know the exact building location, but know the building is located in the block, place the map spot near the center of the block.



8. Click **OK** to save the address. The address will disappear from the current Census Address List view because it now has a GEOID.



9. Save your edits.

### \*\*Important\*\*

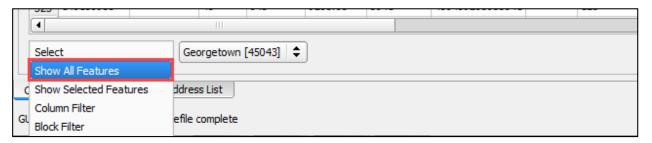
Before creating your Export for Submission, please save, then exit QGIS, re-open your project, then Export for Submission.

# 3. Procedures for Displaying Addresses in GUPS with Differing State or County FIPS codes

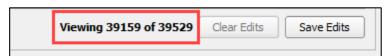
If your county boundary has changed since 2010, some addresses in areas where county boundary changes occurred may not display correctly in GUPS. For example, if your working county added area from an adjacent county since 2010, and this area contained addresses, those addresses may display map spots, but will not automatically display in the Census Address List window for editing. The following procedures provide instructions for finding and displaying those addresses.

In order to display addresses with differing state or county codes in GUPS, you will be required to edit the data you already have via the attribute table.

To determine if you have addresses with differing state or county codes, click the 'Select' dropdown menu in the bottom left corner of the Census Address List, and choose Show All Features.



In the bottom right corner of the Census Address List, you will be able to see how many addresses are in the table view and how many total addresses are in your address list (e.g., Viewing 39159 of 39529).



If the two numbers do not match, you have addresses in areas where boundary corrections have moved a neighboring state or county into your jurisdiction. You must use the instructions in the following section in order to view them in the address list window.

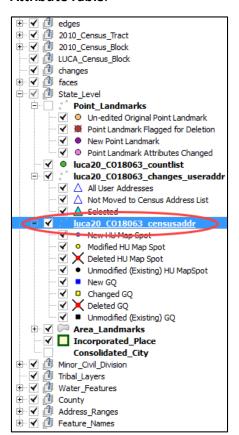
### Preparing Address List Data for Display in Census Address List

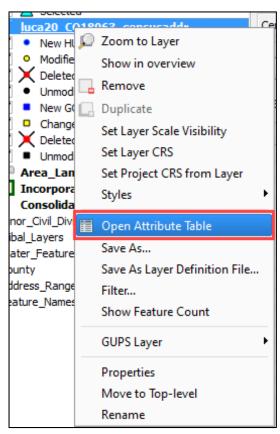
Use the instructions in the following section so that you can display the address records with different state or county codes in the Census Address List.

- 1. Open the GUPS project for your county.
- 2. Select the **"Show/Hide Legend"** button from the toolbar to open the Table of Contents pane on the left of the screen.

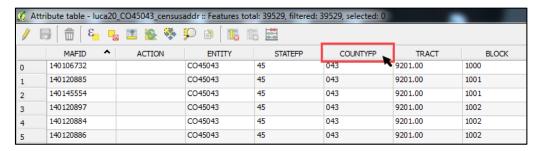


 Right-click on the Census Address List layer (luca20\_<EntityID>\_censusaddr) and select Open Attribute Table.

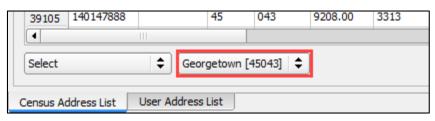




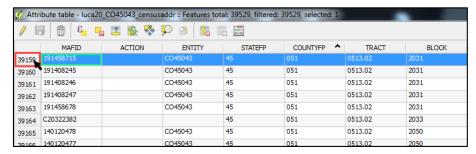
4. Click on the fifth column from the left, COUNTYFP, to sort the column.



5. Scroll through the list to find and select any records where COUNTYFP code <u>does not</u> match the FIPS code of your working county. (The 3-digit FIPS code of your working county can be found by looking at the Census Address List window. The bottom left corner of the Census Address List window displays the name and ID of the working county. The final 3 digits of the ID are the FIPS code for your working county. In this example, '043'.)

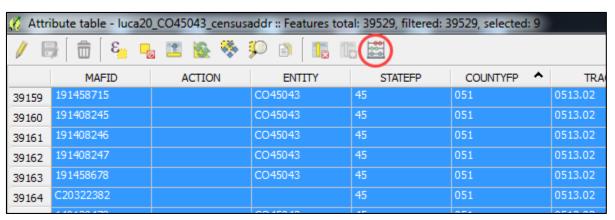


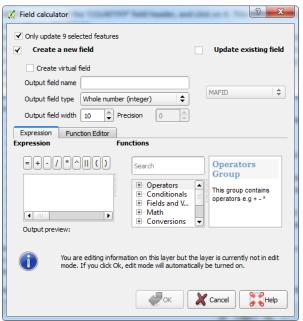
The incorrect COUTYFP records will be found at the top and bottom of the list. **<u>Do not</u>** include blank COUNTYFP in your selection. To select address records, click on the row number on the left margin of the table window.



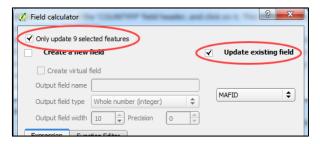
Hold down the Shift key while clicking to select several rows at once, hold down the Ctrl key to add single rows to the selection piecemeal.

6. After selecting all affected addresses, click the **Field Calculator** button at the top of the Attribute Table. This opens the Field Calculator window.

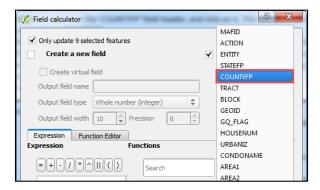




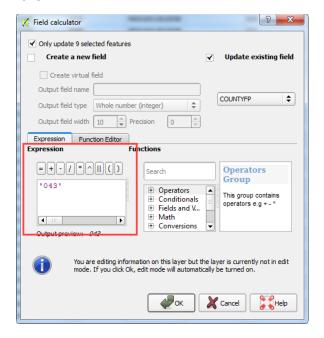
7. In the Field Calculator window, check the boxes next to "Only update # selected features" and "Update Existing Field."



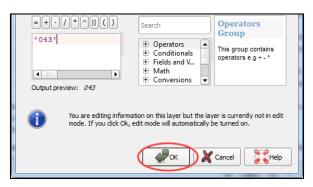
8. Click the 'MAFID' drop-down menu, and select COUNTYFP.



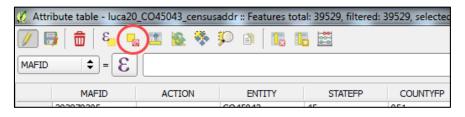
9. In the 'Expression' text box, type in the 3-digit FIPS code for your working county. Be sure to include a single quote (') before and after the number. In this example, the 3-digit FIPS code is '043'.



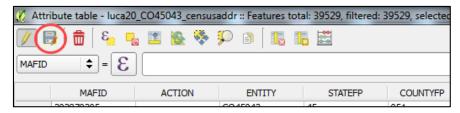
10. Click the **OK** button at the bottom of the window. This will update the COUNTYFP field for all selected records. The Field Calculator window will close automatically.



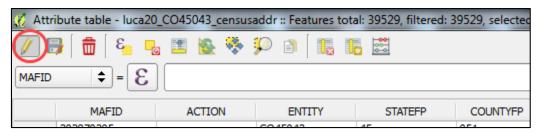
11. Click the **Unselect All** button at the top of the Attribute Table.



12. Click the **Save** button in the upper left corner of the Attribute Table.



13. Click the **yellow pencil icon** in the upper left corner of the Attribute Table to complete editing session.



14. Close the Attributes Table by clicking the red X in the upper right corner of the window.

### 4. Puerto Rico Addresses Require "Use" Field for Validation

In order for edited addresses in Puerto Rico to pass GUPS validation, a "Use Type" must be applied to each edited address. The "Use" field indicates whether an address is used for M - Mailing, L - Location, or B - Both. Edited addresses without the "Use" field populated will generate an error and display in the "Address Error List" window after selecting the "Save" button. To avoid this error, edit addresses via the "Edit" button and "Address Update" window.

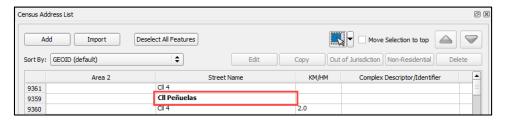
If you do encounter this error, choose the address from the "Address Error List," select fix, and select OK, when the Address Update window opens. This automatically designates the address as "M - Mailing" address, and allows a validation pass.

The following scenario outlines a typical situation where the error will present itself, and how to correct it.

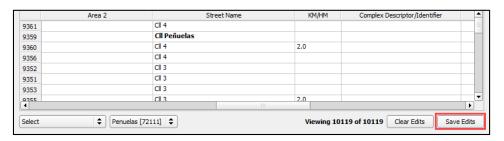
1. User edits an address via in-line editing, and does not edit the "Use" field.



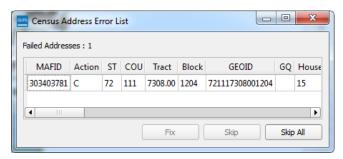
2. The bolded field shows the address record has been edited.



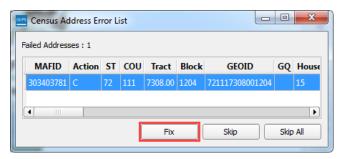
3. The user selects the **Save Edits** button.



4. The Census Address Error List window appears.

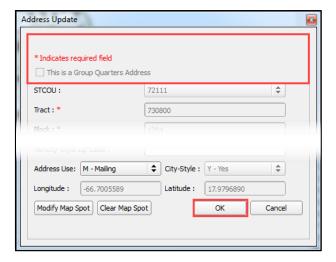


5. Select address from the Census Address Error List window, and select the **Fix** button



6. The Address Update window opens.

In the Address Update window, notice there is no detail at the top of the window describing the error. Select the **OK** button.



7. The Address Update window closes, the address record is removed from the Census Address Error List, and the Census Address List is saved.

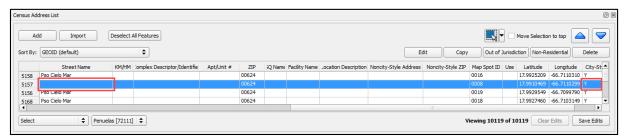


### 5. Adding and Editing City-style Addresses without a Street Name

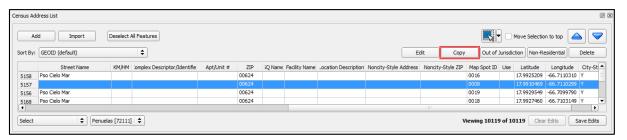
The Census has provided Puerto Rico partners city-style addresses that do not contain Street Names. In order to edit these addresses, or add new addresses that do not contain a Street Name, please follow the steps below for marking the address as a Non City-style address.

### Editing a Census Provided City-style Address without a Street Name

1. Find the address you would like to edit. Select an address record from the Census Address List with City-Style = 'Y' and Street Name is blank.



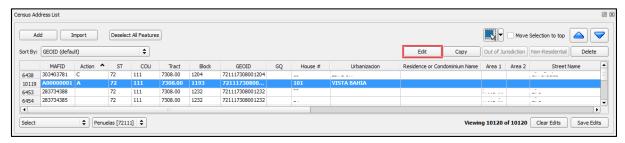
2. Select the **Copy** button.



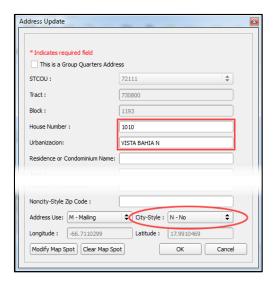
3. In the Copy window, enter a '1' and select **OK**. This creates an exact duplicate of the address you want to edit.



4. Select the newly created address record and select the **Edit** button. The new record will have an 'A' Action and be bolded. It may be easier to find by sorting by the Action column.



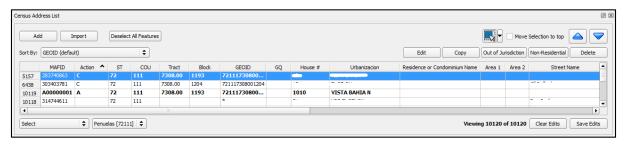
5. In the Address Update window, edit any fields that need to be changed. (This example edited the House Number and Urbanizacion fields.) Make sure to select 'N - No' in the City-Style field.



6. Select **OK** to save the address.



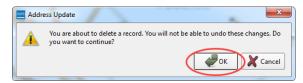
7. In the Census Address List, select the original address you copied. (It will have a bolded 'C' Action.)



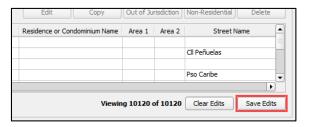
8. Once highlighted, select the **Delete** button.



9. Select '**OK**' in the pop up window.

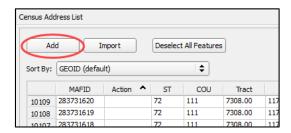


10. Click the Save Edits button to save your edits.

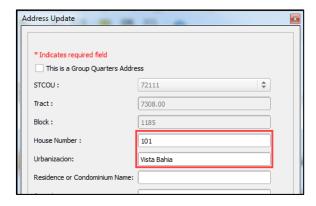


### Adding an Address without a Street Name

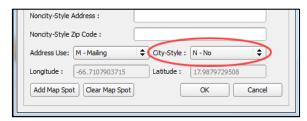
1. In the Census Address List window, select the **Add** button.



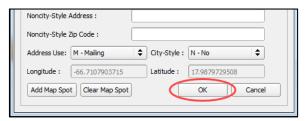
2. In the Address Update window, add in all information for the address you want to add; include a map spot if the location of the address is known.



3. Select 'N - No' in the City-Style field.



4. Select **OK** to save your address.



If you do not follow the above steps and attempt to edit or add a city-style address without a Street Name, you will receive the following error message in the Address Update window:



Although the message indicates you are able to provide an address without a Street Name, this is not the case. The error message is incorrect.